





OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/888,049

DATE: 01/30/2002

TIME: 15:09:27

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01302002\I888049.raw

ENTERED

3 <110> APPLICANT: Francis, Kevin P. Purchio, Anthony F. 6 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR USE THEREOF IN MODIFYING THE GENOMES OF MICROORGANISMS 9 <130> FILE REFERENCE: PXE-013.USP / 9400-0013 11 <140> CURRENT APPLICATION NUMBER: 09/888,049 12 <141> CURRENT FILING DATE: 2001-06-21 14 <150> PRIOR APPLICATION NUMBER: 60/216,257 15 <151> PRIOR FILING DATE: 2000-07-06 17 <150> PRIOR APPLICATION NUMBER: 60/274,105 18 <151> PRIOR FILING DATE: 2001-03-07 20 <160> NUMBER OF SEQ ID NOS: 20 22 <170> SOFTWARE: PatentIn Ver. 2.0 24 <210> SEQ ID NO: 1 25 <211> LENGTH: 6 26 <212> TYPE: DNA 27 <213> ORGANISM: Artificial Sequence 29 <220> FEATURE: 30 <223> OTHER INFORMATION: Description of Artificial Sequence: Gram-positive ribosome binding site 33 <400> SEQUENCE: 1 34 aggagg 36 <210> SEQ ID NO: 2 37 <211> LENGTH: 41 38 <212> TYPE: DNA 39 <213> ORGANISM: Artificial Sequence 41 <220> FEATURE: 42 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XAF 44 <400> SEQUENCE: 2 41 45 ccccqqatcc tqcaqatqaa qcaaqaggag gactctctat g 47 <210> SEQ ID NO: 3 48 <211> LENGTH: 36 49 <212> TYPE: DNA 50 <213> ORGANISM: Artificial Sequence 52 <220> FEATURE: 53 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XAR 55 <400> SEQUENCE: 3 36 56 ggcggatccg tcgacttaat ataatagcga acgttg 58 <210> SEQ ID NO: 4 59 <211> LENGTH: 39 60 <212> TYPE: DNA 61 <213> ORGANISM: Artificial Sequence

63 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 01/30/2002 PATENT APPLICATION: US/09/888,049 TIME: 15:09:27

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01302002\I888049.raw

64 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XBF 66 <400> SEQUENCE: 4 67 gggaattctc gaggaggaga gaaagaaatg aaatttgga 69 <210> SEQ ID NO: 5 70 <211> LENGTH: 37 71 <212> TYPE: DNA 72 <213> ORGANISM: Artificial Sequence 74 <220> FEATURE: 75 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XBR 77 <400> SEQUENCE: 5 37 78 ggcggatccg tcgacttagg tatattccat gtggtac 80 <210> SEQ ID NO: 6 81 <211> LENGTH: 34 82 <212> TYPE: DNA 83 <213> ORGANISM: Artificial Sequence 85 <220> FEATURE: 86 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XCF 88 <400> SEQUENCE: 6 34 89 gggaattctc gaggaggatg gcaaatatga ctaa 91 <210> SEQ ID NO: 7 92 <211> LENGTH: 37 93 <212> TYPE: DNA 94 <213> ORGANISM: Artificial Sequence 96 <220> FEATURE: 97 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XCR 99 <400> SEQUENCE: 7 100 ggcggatccg tcgacttatg ggacaaatac aaggaac 37 102 <210> SEQ ID NO: 8 103 <211> LENGTH: 37 104 <212> TYPE: DNA 105 <213> ORGANISM: Artificial Sequence 107 <220> FEATURE: 108 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XDF 110 <400> SEQUENCE: 8 37 111 gggaattete gaggaggagt aaaagtatgg aaaatga 113 <210> SEQ ID NO: 9 114 <211> LENGTH: 37 115 <212> TYPE: DNA 116 <213> ORGANISM: Artificial Sequence 118 <220> FEATURE: 119 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XDR 121 <400> SEQUENCE: 9 37 122 ggcggatccg tcgacttaag acagagaaat tgcttga 124 <210> SEQ ID NO: 10 125 <211> LENGTH: 38 126 <212> TYPE: DNA 127 <213> ORGANISM: Artificial Sequence 129 <220> FEATURE: 130 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XEF RAW SEQUENCE LISTING DATE: 01/30/2002 PATENT APPLICATION: US/09/888,049 TIME: 15:09:27

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01302002\I888049.raw

132 <400> SEQUENCE: 10. 38 133 gggaattete gaggaggaaa acaggtatga etteatag 135 <210> SEQ ID NO: 11 136 <211> LENGTH: 38 137 <212> TYPE: DNA 138 <213> ORGANISM: Artificial Sequence 140 <220> FEATURE: 141 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer XER 143 <400> SEQUENCE: 11 144 ggcggatccg tcgacttaac tatcaaacgc ttcggtta 38 146 <210> SEQ ID NO: 12 147 <211> LENGTH: 32 148 <212> TYPE: DNA 149 <213> ORGANISM: Artificial Sequence 151 <220> FEATURE: 152 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer KanF2 154 <400> SEQUENCE: 12 32 155 ctgtagactc gaggagggaa ataataaatg gc 157 <210> SEQ ID NO: 13 158 <211> LENGTH: 26 159 <212> TYPE: DNA 160 <213> ORGANISM: Artificial Sequence 162 <220> FEATURE: 163 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer KanR2 165 <400> SEQUENCE: 13 26 166 cagagtgtcg acagttgcgg atgtac 168 <210> SEQ ID NO: 14 169 <211> LENGTH: 19 170 <212> TYPE: DNA 171 <213> ORGANISM: Artificial Sequence 173 <220> FEATURE: 174 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer MGC-CAT-F1 177 <400> SEQUENCE: 14 19 178 gqtqtccctq ttgataccg 180 <210> SEQ ID NO: 15 181 <211> LENGTH: 20 182 <212> TYPE: DNA 183 <213> ORGANISM: Artificial Sequence 185 <220> FEATURE: 186 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer LuxA-Rev 189 <400> SEQUENCE: 15 20 190 ccacactcct cagagatgcg 192 <210> SEQ ID NO: 16 193 <211> LENGTH: 21 194 <212> TYPE: DNA 195 <213> ORGANISM: Artificial Sequence 197 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 01/30/2002

PATENT APPLICATION: US/09/888,049

TIME: 15:09:27

19

22

17

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\01302002\I888049.raw

- 198 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer LuxIF3 200 <400> SEQUENCE: 16
- 201 gcttggtaac ccttatgtcg c
- 203 <210> SEQ ID NO: 17
- 204 <211> LENGTH: 19
- 205 <212> TYPE: DNA
- 206 <213> ORGANISM: Artificial Sequence
- 208 <220> FEATURE:
- 209 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer LuxR3
- 211 <400> SEQUENCE: 17
- 212 gggaggttgg tatgtaagc
- 214 <210> SEQ ID NO: 18
- 215 <211> LENGTH: 22
- 216 <212> TYPE: DNA
- 217 <213> ORGANISM: Artificial Sequence
- 219 <220> FEATURE:
- 220 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer R2
- 222 <400> SEQUENCE: 18
- 223 cgtttcatta cctctgtttg ag
  - 5 cyclicatia cocceptive uy
- 225 <210> SEQ ID NO: 19
- 226 <211> LENGTH: 17
- 227 <212> TYPE: DNA
- 228 <213> ORGANISM: Artificial Sequence
- 230 <220> FEATURE:
- 231 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer M13F
- 233 <400> SEQUENCE: 19
- 234 gtaaaacgac ggccagt
- 236 <210> SEQ ID NO: 20
- 237 <211> LENGTH: 17
- 238 <212> TYPE: PRT
- 239 <213> ORGANISM: Artificial Sequence
- 241 <220> FEATURE:
- 242 <223> OTHER INFORMATION: Description of Artificial Sequence: CSP1
- 244 <400> SEQUENCE: 20
- 245 Glu Met Arg Leu Ser Lys Phe Phe Arg Asp Phe Ile Leu Gln Arg Lys
- 246 1 5 10 15
- 248 Lys

VERIFICATION SUMMARY

DATE: 01/30/2002

PATENT APPLICATION: US/09/888,049

TIME: 15:09:28

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\01302002\I888049.raw